

[illegible]

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(1)	93	CONDITION TABLES
(1)	130	TM SETUP, TM CLEANUP
(1)	193	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	263	FORM CONDS
(1)	356	VERIFY
(1)	488	VFY_CLEANUP


```
0000 1 .TITLE SATSSS30 SATS SYSTEM SERVICE TESTS $CRELOG,$DELLOG (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000 35 WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS30 TO TEST SUCCESSFUL
0000 36 OPERATION OF THE $CRELOG AND $DELLOG SYSTEM SERVICES. THE SERVICES ARE INVOKED
0000 37 UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42
0000 43 ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MAR, 1977
0000 47
0000 48 MODIFIED BY:
0000 49
0000 50 VERSION 1.50 : 25-MAY-79
0000 51
0000 52 01 LDJ 08/17/79 Added code to test for $DELLOG system service.
0000 53 --
```

SATSSS30
V04-000

SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1

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```
0000 55 .SBTTL DECLARATIONS
0000 56 :
0000 57 : INCLUDE FILES:
0000 58 :
0000 59 $PRVDEF : PRIVILEGE BIT DEFINITIONS
0000 60 $PHDDEF : PROCESS HEADER OFFSETS
0000 61 $LOGDEF : LOGICAL NAME TABLE DEFINITIONS
0000 62 $PSLDEF : PROCESSOR STATUS LONGWORD DEFINITIONS
0000 63 :
0000 64 : MACROS:
0000 65 :
0000 66 :
0000 67 : EQUATED SYMBOLS:
0000 68 :
0000 69 :
0000 70 : OWN STORAGE:
0000 71 :
```

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V04-000

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DECLARATIONS 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1 (1)

```
00000000 73 .PSECT RODATA,RD,NOWRT,NOEXE, LONG
0000 74 TEST_MOD_NAME:: STRING C,<SATSSS30> : TEST MODULE NAME
0009 75 TEST_MOD_NAME_D: STRING I,<SATSSS30> : TEST MODULE NAME DESCRIPTOR
0019 76 MSG1_INP_CTL: STRING I,< SSCLN!4ZW: CONDITIONS:>
0039 77 : FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039 78 MSG3_ERR_CTL:: STRING I,< *SSCLN!4ZW: !AS>
0051 79 : FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
00000002 0051 80 EQLNAM: .LONG 2 : EQLNAM ARGUMENT FOR
00000000 0055 81 .ADDRESS TESTNUM : ... SUBJECT SYSTEM SERVICE
00000004 0059 82 LOGNAM: .LONG 4 : LOGNAM ARGUMENT FOR
00000096 005D 83 .ADDRESS COMTN : ... SUBJECT SYSTEM SERVICE
```


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M 6
SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00
DECLARATIONS 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1

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00000000	85	.PSECT	RWDATA,RD,WRT,NOEXE, LONG	
00000008 0000	86	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000A 0008	87	RSLEN_TLN:	.BLKW 1	: RSLEN ARGUMENT FOR \$TRNLOG
	88	RSLBUF_TLN:	STRING 0,130	: RSLBUF ARGUMENT FOR \$TRNLOG
00000095 0094	89	TABLE_TLN:	.BLKB 1	: TABLE ARGUMENT FOR \$TRNLOG
00000096 0095	90	ACMODE_TLN:	.BLKB 1	: ACMODE ARGUMENT FOR \$TRNLOG
00000000 0096	91	COMTN:-	.LONG 0	: COMPLEMENTED TESTNUM (USED AS LOGNAM)

```
.SBTTL CONDITION TABLES
***** CONDITION TABLES FOR CRELOG SYSTEM SERVICE *****

COND 1, LONG, <TBLFLG>, -
      <SYSTEM TABLE>, -
      <GROUP TABLE>, -
      <PROCESS TABLE>, -
      .LONG LOG$C_SYSTEM
      .LONG LOG$C_GROUP
      .LONG LOG$C_PROCESS

COND 2, NOTARG, <PREVIOUS STATUS OF LOGICAL NAME>, -
      <ALREADY EXISTS>, -
      <NON-EXISTENT>, -
      .LONG SS$ SUPERSEDE
      .LONG SS$ NORMAL

COND 3, LONG, <ACMODE>, -
      <KERNEL>, -
      <EXEC>, -
      <SUPER>, -
      <USER>, -
      .LONG PSL$C_KERNEL
      .LONG PSL$C_EXEC
      .LONG PSL$C_SUPER
      .LONG PSL$C_USER

COND 4, NULL
COND 5, NULL

.PSECT SATSSS30, RD, WRT, EXE
```

	009A	93
	009A	94 :
	009A	95 :
	009A	96 :
	009A	97 :
	009A	98 :
	009A	99 :
	009A	100 :
	009A	101 :
00000000	00D5	102 :
00000001	00D9	103 :
00000002	00DD	104 :
	00E1	105 :
	00E1	106 :
	00E1	107 :
	00E1	108 :
	00E1	109 :
00000000	0126	110 :
00000000	012A	111 :
	012E	112 :
	012E	113 :
	012E	114 :
	012E	115 :
	012E	116 :
	012E	117 :
	012E	118 :
00000000	015D	119 :
00000001	0161	120 :
00000002	0165	121 :
00000003	0169	122 :
	016D	123 :
	016D	124 :
	016E	125 :
	016E	126 :
	016F	127 :
00000000		128 :


```
0000 130 .SBTTL TM_SETUP, TM_CLEANUP
0000 131 :++
0000 132 : FUNCTIONAL DESCRIPTION:
0000 133 :
0000 134 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
0000 135 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
0000 136 : TEST MODULE EXECUTION.
0000 137 :
0000 138 : CALLING SEQUENCE:
0000 139 :
0000 140 : BSBW TM_SETUP BSBW TM_CLEANUP
0000 141 :
0000 142 : INPUT PARAMETERS:
0000 143 :
0000 144 : NONE
0000 145 :
0000 146 : IMPLICIT INPUTS:
0000 147 :
0000 148 : NONE
0000 149 :
0000 150 : OUTPUT PARAMETERS:
0000 151 :
0000 152 : NONE
0000 153 :
0000 154 : IMPLICIT OUTPUTS:
0000 155 :
0000 156 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
0000 157 : ALL PRIVILEGES ACQUIRED.
0000 158 :
0000 159 : COMPLETION CODES:
0000 160 :
0000 161 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0000 162 :
0000 163 : SIDE EFFECTS:
0000 164 :
0000 165 : SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
0000 166 : (VIA RSB) IF ERROR ENCOUNTERED.
0000 167 :
0000 168 :--
0000 169 :
0000 170 :
0000 171 :
0000 172 TM_SETUP::
52 D4 0000 173 CLRL R2 : INITIALIZE
53 D4 0002 174 CLRL R3 : .. CONDITION
54 D4 0004 175 CLRL R4 : .... TABLE
55 D4 0006 176 CLRL R5 : ..... INDEX
56 D4 0008 177 CLRL R6 : ..... REGISTERS
00000000'EF 00000000'EF 30 000A 178 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG
03 00 00000000'8F DE 000D 179 MOVAL TEST MOD_SUCC,TMD ADDR : ASSUME END MSG WILL SHOW SUCCESS
00000000'EF FO 0018 180 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
0020
0025 181 MODE TO,5$,KRNL : KERNEL MODE TO ACCESS PHD
59 00000000'9F DO 0048 182 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
00000000'EF 69 DE 004F 183 MOVAL PHD$Q,PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
0056 184 MODE FROM,5$ ; BACK TO USER MODE
0057 185 PRIV ADD,ALL ; GET ALL PRIVILEGES
```

SATSSS30
V04-000

SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00 Page 7
TM_SETUP, TM_CLEANUP 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1 (1)

	0077	186	\$SETPRN S TEST MOD_NAME_D	: SET PROCESS NAME
	0084	187	SS CHECK NORMAL	: CHECK STATUS CODE RETURNED FROM SETPRN
05	00B2	188	RSB	: RETURN TO MAIN ROUTINE
	00B3	189	TM_CLEANUP::	
FF4A'	30	00B3	BSBW MOD_MSG_PRINT	: PRINT TEST MODULE END MSG
05	00B6	191	RSB	: RETURN TO MAIN ROUTINE

```
00B7 193 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
00B7 194 :++
00B7 195 : FUNCTIONAL DESCRIPTION:
00B7 196 :
00B7 197 : COND1 AND COND2 CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
00B7 198 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
00B7 199 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
00B7 200 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
00B7 201 : CONDITION X TABLE IS INCLUDED IN THE COND1 SUBROUTINE AND CLEANED
00B7 202 : UP, IF NECESSARY, IN THE COND2 CLEANUP SUBROUTINE. THIS INCLUDES,
00B7 203 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
00B7 204 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
00B7 205 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
00B7 206 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
00B7 207 :
00B7 208 : CALLING SEQUENCE:
00B7 209 :
00B7 210 : BSBW COND1 BSBW COND2_CLEANUP
00B7 211 : WHERE X = 1,2,3,4,5
00B7 212 :
00B7 213 : INPUT PARAMETERS:
00B7 214 :
00B7 215 : CONFLICT = 0
00B7 216 :
00B7 217 : IMPLICIT INPUTS:
00B7 218 :
00B7 219 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00B7 220 : FOR COND1 TABLES 1,2,3,4,5, RESPECTIVELY.
00B7 221 :
00B7 222 : OUTPUT PARAMETERS:
00B7 223 :
00B7 224 : CONFLICT SET TO NON-ZERO IF COND1 TABLE CONFLICT DETECTED.
00B7 225 :
00B7 226 : IMPLICIT OUTPUTS:
00B7 227 :
00B7 228 : R2,3,4,5,6 PRESERVED
00B7 229 :
00B7 230 : COMPLETION CODES:
00B7 231 :
00B7 232 : NONE
00B7 233 :
00B7 234 : SIDE EFFECTS:
00B7 235 :
00B7 236 : NONE
00B7 237 :
00B7 238 : --
00B7 239 :
00B7 240 :
00B7 241 :
00B7 242 : COND1::
05 00B7 243 : RSB ; RETURN TO MAIN ROUTINE
00B7 244 : COND1_CLEANUP::
05 00B7 245 : RSB ; RETURN TO MAIN ROUTINE
00B7 246 : COND2::
05 00B7 247 : RSB ; RETURN TO MAIN ROUTINE
00B7 248 : COND2_CLEANUP::
05 00B7 249 : RSB ; RETURN TO MAIN ROUTINE
```

	00BB	250	COND3::	
05	00BB	251	RSB	; RETURN TO MAIN ROUTINE
	00BC	252	COND3_CLEANUP::	
05	00BC	253	RSB	; RETURN TO MAIN ROUTINE
	00BD	254	COND4::	
05	00BD	255	RSB	; RETURN TO MAIN ROUTINE
	00BE	256	COND4_CLEANUP::	
05	00BE	257	RSB	; RETURN TO MAIN ROUTINE
	00BF	258	COND5::	
05	00BF	259	RSB	; RETURN TO MAIN ROUTINE
	00C0	260	COND5_CLEANUP::	
05	00C0	261	RSB	; RETURN TO MAIN ROUTINE


```
00C1 263 .SBTTL FORM_CONDS
00C1 264
00C1 265 ++
00C1 266 FUNCTIONAL DESCRIPTION:
00C1 267
00C1 268 FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
00C1 269 THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
00C1 270
00C1 271 CALLING SEQUENCE:
00C1 272
00C1 273 BSBW FORM_CONDS
00C1 274
00C1 275 INPUT PARAMETERS:
00C1 276
00C1 277 NONE
00C1 278
00C1 279 IMPLICIT INPUTS:
00C1 280
00C1 281 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
00C1 282 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
00C1 283 FOR X = 1,2,3,4,5 :
00C1 284 CONDX_T - TITLE TEXT FOR CONDX TABLE
00C1 285 CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
00C1 286 CONDX_C - CONTEXT OF THE CONDX TABLE
00C1 287 CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
00C1 288
00C1 289 OUTPUT PARAMETERS:
00C1 290
00C1 291 NONE
00C1 292
00C1 293 IMPLICIT OUTPUTS:
00C1 294
00C1 295 NONE
00C1 296
00C1 297 COMPLETION CODES:
00C1 298
00C1 299 NONE
00C1 300
00C1 301 SIDE EFFECTS:
00C1 302
00C1 303 NONE
00C1 304
00C1 305 --
00C1 306
00C1 307
00C1 308 FORM_CONDS::
00C1 309 $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
00E0 310 : FORMAT CONDITIONS HEADER MSG
14 FF1D' 30 00E0 311 BSBW OUTPUT_MSG : ... AND PRINT IT
04 91 00E3 312 CMPB #COND1_C,#NULL : IS CONDITION 1 NULL ?
03 12 00E6 313 BNEQU 10$ : NO -- CONTINUE
00D7 31 00E8 314 BRW FORM_CONDSX : YES -- SUBROUTINE IS FINISHED
00E8 315 10$:
00E8 316 MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF 0000009A'EF DE 00E8 317 MOVL COND1_TAB[R2],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
00000000'EF 000000A2'EF42 D0 00F6 318 MOVB #COND1_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO
00000000'EF 04 90 0102 319 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO
```

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      FEE8' 30 0115 320      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 1 MSG
14 00 91 0118 321      CMPB #COND2_C,#NULL      : IS CONDITION 2 NULL ?
      03 12 011B 322      BNEQU 20$      : NO -- CONTINUE
      00A2 31 011D 323      BRW FORM_CONDSX      : YES -- SUBROUTINE IS FINISHED
      0120 324 20$:
00000000'EF 000000E1'EF DE 0120 325      MOVAL COND2_T,MSG_A      : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 00000102'EF43 D0 012B 326      MOVL COND2_TAB[R3],MSG_B      : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
      00000000'EF 00 90 0137 327      MOVB #COND2_C,MSG_CTXT      : SAVE CONDITION 2 CONTEXT FOR FAO
      013E 328      MOV VAL COND2_C,COND2_E[R3],MSG_DATA1 : GIVE COND 2 DATA VALUE TO FAO
      FEF' 30 013E 329      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 2 MSG
14 04 91 0141 330      CMPB #COND3_C,#NULL      : IS CONDITION 3 NULL ?
      03 12 0144 331      BNEQU 30$      : NO -- CONTINUE
      0079 31 0146 332      BRW FORM_CONDSX      : YES -- SUBROUTINE IS FINISHED
      0149 333 30$:
00000000'EF 0000012E'EF DE 0149 334      MOVAL COND3_T,MSG_A      : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 00000136'EF44 D0 0154 335      MOVL COND3_TAB[R4],MSG_B      : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
      00000000'EF 04 90 0160 336      MOVB #COND3_C,MSG_CTXT      : SAVE CONDITION 3 CONTEXT FOR FAO
      0167 337      MOV VAL COND3_C,COND3_E[R4],MSG_DATA1 : GIVE COND 3 DATA VALUE TO FAO
      FE8A' 30 0173 338      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 3 MSG
14 14 91 0176 339      CMPB #COND4_C,#NULL      : IS CONDITION 4 NULL ?
      47 13 0179 340      BEQLU FORM_CONDSX      : YES -- SUBROUTINE IS FINISHED
00000000'EF 0000016D'EF DE 017B 341      MOVAL COND4_T,MSG_A      : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'EF 0000016D'EF45 D0 0186 342      MOVL COND4_TAB[R5],MSG_B      : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 0192 343      MOVB #COND4_C,MSG_CTXT      : SAVE CONDITION 4 CONTEXT FOR FAO
      0199 344      MOV VAL COND4_C,COND4_E[R5],MSG_DATA1 : GIVE COND 4 DATA VALUE TO FAO
      FE64' 30 0199 345      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 4 MSG
14 14 91 019C 346      CMPB #COND5_C,#NULL      : IS CONDITION 5 NULL ?
      21 13 019F 347      BEQLU FORM_CONDSX      : YES -- SUBROUTINE IS FINISHED
00000000'EF 0000016E'EF DE 01A1 348      MOVAL COND5_T,MSG_A      : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 0000016E'EF46 D0 01AC 349      MOVL COND5_TAB[R6],MSG_B      : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
      00000000'EF 14 90 01B8 350      MOVB #COND5_C,MSG_CTXT      : SAVE CONDITION 5 CONTEXT FOR FAO
      01BF 351      MOV VAL COND5_C,COND5_E[R6],MSG_DATA1 : GIVE COND 5 DATA VALUE TO FAO
      FE3E' 30 01BF 352      BSBW WRITE_MSG2      : FORMAT AND WRITE CONDITION 5 MSG
      01C2 353 FORM_CONDSX:
      05 01C2 354      RSB      : RETURN TO CALLER
```

```
01C3 356 .SBTTL VERIFY
01C3 357
01C3 358 ++
01C3 359 FUNCTIONAL DESCRIPTION:
01C3 360
01C3 361 VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
01C3 362 TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
01C3 363 COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
01C3 364 SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
01C3 365 ($CRELOG). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
01C3 366 BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
01C3 367 AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
01C3 368 COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
01C3 369 ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
01C3 370 THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
01C3 371 PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
01C3 372 WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
01C3 373 AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
01C3 374
01C3 375 CALLING SEQUENCE:
01C3 376 BSBW VERIFY
01C3 377
01C3 378 INPUT PARAMETERS:
01C3 379
01C3 380 NONE
01C3 381
01C3 382 IMPLICIT INPUTS:
01C3 383
01C3 384 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
01C3 385 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
01C3 386 FOR X = 1,2,3,4,5 :
01C3 387 CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
01C3 388 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
01C3 389 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
01C3 390 FOR CONDX_E.
01C3 391
01C3 392 OUTPUT PARAMETERS:
01C3 393
01C3 394 NONE
01C3 395
01C3 396 IMPLICIT OUTPUTS:
01C3 397
01C3 398 VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
01C3 399 IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
01C3 400 ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
01C3 401 AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
01C3 402 ERRORS.
01C3 403
01C3 404 COMPLETION CODES:
01C3 405
01C3 406 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
01C3 407
01C3 408 SIDE EFFECTS:
01C3 409
01C3 410 SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
01C3 411 (VIA RSB) IF ERROR ENCOUNTERED.
01C3 412
```



```
01C3 413 :--
01C3 414
01C3 415
01C3 416
01C3 417 VERIFY::
00000000'EF 95 01C3 418 TSTB CFLAG ; SHOULD CONDITIONS BE PRINTED ?
03 13 01C9 419 BEQL 5$ ; NO -- CONTINUE
FEF3 30 01CB 420 BSBW FORM_CONDS ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
00000096'EF 00000000'EF B2 01CE 421 5$: MCOMW TESTNUM,COMTN ; GET A LOGICAL NAME UNIQUE TO THIS T.C.
00000126'EF43 00000000'8F D1 01D9 422 CMPL #SS$ _NORMAL,COND2_E[R3] ; IS NORMAL EXPECTED ?
03 12 01E5 423 BNEQU 25$ ; NO -- CONTINUE
0073 31 01E7 424 BRW 20$ ; YES -- GO RIGHT TO SUBJECT SERVICE
01EA 425 25$: MODE TO,10$,KRNL ; TO KERNEL FOR EXTRA CRELOG
01EA 426 $CRELOG_S TBLFLG[R2],LOGNAM,EQLNAM,ACMODE[R4] ; CREATE "ALREADY EXISTENT" LOGICAL NAME
020D 427 MODE FROM,10$ ; BACK TO USER MODE
022E 428 SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS CODE
022E 430 20$: MODE TO,30$,KRNL ; GET KERNEL FOR SUBJECT SERVICE
022F 431 ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
025D 432 $CRELOG_S TBLFLG[R2],LOGNAM,EQLNAM,ACMODE[R4]
025D 433 MODE FROM,30$ ; BACK TO USER
0280 434 MOVL COND2_E[R3],EXPV ; LOAD UP EXPECTED STATUS CODE
0280 435 CMPL RO,EXPV ; CODE RECEIVED = CODE EXPECTED ?
0280 436 BEQLU 40$ ; YES -- DO SOME MORE VERIFYING
00000000'EF 00000126'EF43 D0 02B5 441 MOVL RO,RECV ; GET REC'D STAT CODE INTO STORAGE
00000000'EF 50 D1 02BE 442 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM CRELOG>
00000000'EF 56 13 030D 443 ; PRINT ERROR MSG & EXIT SUBROUTINE
00000000'EF 50 D0 030D 444 40$: $TRNLOG S LOGNAM,RSLEN_TLN,RSBUF_TLN,TABLE_TLN,ACMODE_TLN
030D 445 SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS CODE
0334 446 MOVL TBLFLG[R2],EXPV ; GET EXPECTED VALUE OUT OF COND TABLE
00000000'EF 000000D5'EF42 D0 0362 448 CMPL TABLE_TLN,EXPV ; DID TRNLOG RETURN CORRECT TABLE FLAG VAL ?
00000000'EF 00000094'EF 91 036E 449 BEQLU 60$ ; YES -- MORE VERIFYING
00000000'EF 54 13 0379 450 MOVB TABLE_TLN,RECV ; PROCESS ERROR & EXIT ...
00000000'EF 00000094'EF 90 037B 451 ERR_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG TABLE>
0386 452 60$: CMPL TBLFLG[R2],#LOG$C_PROCESS ; IS LOG NAME IN PROCESS TABLE ?
03CF 453 BEQLU 65$ ; YES -- CONTINUE
02 000000D5'EF42 D1 03D7 454 BRW 70$ ; NO -- BYPASS ACMODE TEST
03 13 03D9 455 65$: MOVL ACMODE[R4],EXPV ; YES -- GET EXP ACMODE OUT OF COND TABLE
0073 31 03DC 456 CMPL ACMODE_TLN,EXPV ; DID TRNLOG RETURN CORRECT ACCESS MODE ?
00000000'EF 0000015D'EF44 D0 03E8 457 BEQLU 70$ ; YES -- KEEP GOING
00000000'EF 00000095'EF 91 03F3 460 MOVB ACMODE_TLN,RECV ; NO -- ESTAB RECV & TAKE ERROR EXIT ...
00000000'EF 5A 13 03F5 461 ERR_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG >, -
00000000'EF 00000095'EF 90 0400 462 70$: CMPL RSLEN_TLN,EQLNAM ; DID TRNLOG RETURN CORRECT STRING LENGTH ?
0400 463 BEQLU 75$ ; NO -- CONTINUE
044F 464 BRW 80$ ; YES -- DO ANOTHER VERIFY
00000051'EF 00000008'EF B1 044F 465 75$: MOVW EQLNAM,EXPV ; LOAD UP EXPECTED AND
03 12 045A 466
0068 31 045C 467
045F 468
00000000'EF 00000051'EF B0 045F 469
```


SATSSS30
V04-000

SATS SYSTEM SERVICE TESTS
VERIFY

J 7
SCRELOG, SDELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00
5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1

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00000000'EF	00000008'EF	B0	046A	470	MOVW	RSLEN_TLN,RCV	: RECEIVED VALUES, THEN EXIT
			0475	471	ERR_EXIT	WORD,ZINCORRECT LENGTH CREATED FOR >, -	
			0475	472		<EQUIVALENCE NAME>	
			04C7	473	80\$:		
	0000'8F	BB	04C7	474	PUSHR	#CMPC_SAV	: SAVE SOME REGS USED BY CMPC
0000000E'FF	00000008'EF	29	04CB	475	CMPC	RSLEN_TLN,@RSLBUF_TLN+4,@EQLNAM+4	
	00000055'FF		04D6				
			04DB	476			: TRANSLATED STRING MATCH THAT CREATED ?
	0000'8F	BA	04DB	477	POPR	#CMPC_SAV	: RESTORE SOME REGS USED BY CMPC
	03	12	04DF	478	BNEQU	85\$: NO -- CONTINUE
	0064	31	04E1	479	BRW	VERIFYX	: YES -- EVERYTHING VERIFIES
			04E4	480	85\$:		
00000000'EF	00000051'EF	7D	04E4	481	MOVQ	EQLNAM,EXPV	: LOAD UP EXPECTED AND
00000000'EF	0000000A'EF	7D	04EF	482	MOVQ	RSLBUF_TLN,RCV	: RECEIVED VALUES, THEN EXIT
			04FA	483	ERR_EXIT	DESC,ZINCORRECT EQUIVALENCE NAME >, -	
			04FA	484		<STRING CREATED>	
			0548	485	VERIFYX:		
		05	0548	486	RSB		: RETURN TO CALLER

```
0549 488 .SBTTL VFY_CLEANUP
0549 489
0549 490 **
0549 491 : FUNCTIONAL DESCRIPTION:
0549 492 :
0549 493 : VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0549 494 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
0549 495 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0549 496 : ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
0549 497 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS. THIS IS REQUIRED
0549 498 : IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
0549 499 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0549 500 : POSSIBLY DISCOVERING A SECOND ERROR.
0549 501
0549 502 : CALLING SEQUENCE:
0549 503 :
0549 504 : BSBW VFY_CLEANUP
0549 505
0549 506 : INPUT PARAMETERS:
0549 507 :
0549 508 : NONE
0549 509
0549 510 : IMPLICIT INPUTS:
0549 511 :
0549 512 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0549 513 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0549 514 : FOR X = 1,2,3,4,5 :
0549 515 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0549 516 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0549 517 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0549 518 : FOR CONDX_E.
0549 519
0549 520 : OUTPUT PARAMETERS:
0549 521 :
0549 522 : NONE
0549 523
0549 524 : IMPLICIT OUTPUTS:
0549 525 :
0549 526 : NONE
0549 527
0549 528 : COMPLETION CODES:
0549 529 :
0549 530 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0549 531
0549 532 : SIDE EFFECTS:
0549 533 :
0549 534 : SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0549 535 : (VIA RSB) IF ERROR ENCOUNTERED.
0549 536 :
0549 537 :
0549 538
0549 539
0549 540 VFY_CLEANUP::
0549 541 : MODE TO,10$,KRNL : KERNEL MODE
056C 542 : $DELOG,S {BLFLG[R2]},LOGNAM,ACMODE[R4] : UNDO SUBJECT SERVICE
0587 543 : MODE FROM,10$ : BACK TO USER MODE
0588 544 : SS_CHECK NORMAL : CHECK NORMAL STATUS CODE
```

SATSSS30
V04-000

SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00
VFY_CLEANUP 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1

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05B6	545	MODE	TO,20\$,KRNL	; kernel mode
05D9	546	\$DELLOG_S	{BLFLG[R2],LOGNAM,ACMODE[R4]}	; check for actual delete
05F4	547	MODE	FROM,20\$; back to user mode
05F5	548	SS	CHECK NOLOGNAM	; check correct status return
05 0623	549	RSB		; RETURN TO CALLER
0624	550	.END		

SA
VO

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4E

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SATSSS30
Symbol table

SATS SYSTEM SERVICE TESTS

M 7
\$CRELOG,\$DELL

16-SEP-1984 00:49:54
5-SEP-1984 04:30:27

VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS30.MAR;1

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\$\$\$	= 00000504	R	04
\$\$\$CHARS	= 00000029		
\$\$\$CHARS1	= 00000006		
\$\$\$CHARS2	= 00000004		
\$\$\$CHARS3	= 00000005		
\$\$\$CHARS4	= 00000004		
\$\$\$CHARS5	= 00000000		
\$\$\$COND_A	= 00000003		
\$\$\$STRINGS	= 00000001		
\$\$\$STRINGS2	= 00000005		
\$\$T1	= 00000000		
\$\$T2	= 00000004		
ACMODE	0000015D	R	03
ACMODE_TLN	00000095	R	03
BYTE	= 00000001	G	
CFLAG	*****	X	04
CHMRTN	*****	X	04
CHM_CONT	*****	X	04
CMPC_SAV	*****	X	04
COMP_SC	*****	X	04
COMTR	00000096	R	03
COND1	000000B7	RG	04
COND1_C	= 00000004		
COND1_CLEANUP	000000B8	RG	04
COND1_E	000000D5	R	03
COND1_H	000000A1	RG	03
COND1_T	0000009A	R	03
COND1_TAB	000000A2	R	03
COND2	000000B9	RG	04
COND2_C	= 00000000		
COND2_CLEANUP	000000BA	RG	04
COND2_E	00000126	R	03
COND2_H	00000101	RG	03
COND2_T	000000E1	R	03
COND2_TAB	00000102	R	03
COND3	000000BB	RG	04
COND3_C	= 00000004		
COND3_CLEANUP	000000BC	RG	04
COND3_E	0000015D	R	03
COND3_H	00000135	RG	03
COND3_T	0000012E	R	03
COND3_TAB	00000136	R	03
COND4	000000BD	RG	04
COND4_C	= 00000014		
COND4_CLEANUP	000000BE	RG	04
COND4_H	0000016D	RG	03
COND4_T	0000016D	R	03
COND4_TAB	0000016D	R	03
COND5	000000BF	RG	04
COND5_C	= 00000014		
COND5_CLEANUP	000000C0	RG	04
COND5_H	0000016E	RG	03
COND5_T	0000016E	R	03
COND5_TAB	0000016E	R	03
CTL\$GC_PHD	*****	X	04
DESC	= 00000010	G	
EFLAG	*****	X	04

EQLNAM	00000051	R	02
EXPV	*****	X	04
FAO_DESC	*****	X	04
FAO_LEN	*****	X	04
FORM_CONDS	000000C1	RG	04
FORM_CONDSX	000001C2	R	04
LOG\$C_GROUP	= 00000001		
LOG\$C_PROCESS	= 00000002		
LOG\$C_SYSTEM	= 00000000		
LOGNAM	00000059	R	02
LONG	= 00000004	G	
MOD_MSG_CODE	*****	X	04
MOD_MSG_PRINT	*****	X	04
MSGT_INP_CTL	00000019	R	02
MSG3_ERR_CTL	00000039	RG	02
MSG_A	*****	X	04
MSG_B	*****	X	04
MSG_CTXT	*****	X	04
MSG_DATA1	*****	X	04
NOTARG	= 00000000	G	
NULL	= 00000014	G	
OUTPUT_MSG	*****	X	04
PCV	*****	X	04
PHD\$Q_PRIVMSK	= 00000000		
PRIVMASK	00000000	R	03
PRIV_ARGS	= 00000002		
PROCESS_ERR	*****	X	04
PSL\$C_EXEC	= 00000001		
PSL\$C_KERNEL	= 00000000		
PSL\$C_SUPER	= 00000002		
PSL\$C_USER	= 00000003		
QUAD	= 00000008	G	
RECV	*****	X	04
REST_REGS	*****	X	04
RSLBOF_TLN	0000000A	R	03
RSLLN_TLN	00000008	R	03
SAVE_REGS	*****	X	04
SS\$_NOLOGNAM	*****	X	04
SS\$_NORMAL	*****	X	03
SS\$_SUPERSEDE	*****	X	03
SUCCESS	*****	X	04
SYSSCMKRNL	*****	GX	04
SYSSCRELOG	*****	GX	04
SYSSDELLOG	*****	GX	04
SYSSFAO	*****	X	04
SYSSSETPRN	*****	GX	04
SYSSSETPRV	*****	GX	04
SYSTRNLOG	*****	GX	04
TABLE_TLN	00000094	R	03
TBLFLG	000000D5	R	03
TESTNUM	*****	X	02
TEST_MOD_NAME	00000000	RG	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	*****	X	04
TMD_ADDR	*****	X	04
TM_CLEANUP	000000B3	RG	04
TM_SETUP	00000000	RG	04

SATSSS30
Symbol table

SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL N 7 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00
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VERIFY
VERIFYX
VFY_CLEANUP
WORD
WRITE_MSG2

000001C3 RG 04
00000548 R 04
00000549 RG 04
= 00000002 G
***** X 04

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000061 (97.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000016F (367.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS30	00000624 (1572.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:00.26
Command processing	107	00:00:00.68	00:00:03.12
Pass 1	265	00:00:07.76	00:00:13.71
Symbol table sort	0	00:00:00.54	00:00:00.58
Pass 2	118	00:00:02.00	00:00:02.44
Symbol table output	15	00:00:00.09	00:00:00.13
Psect synopsis output	2	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	538	00:00:11.20	00:00:20.29

The working set limit was 1350 pages.
40009 bytes (79 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 361 non-local and 47 local symbols.
550 source lines were read in Pass 1, producing 25 object records in Pass 2.
37 pages of virtual memory were used to define 28 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]UETP.MLB;1	9
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	25

687 GETS were required to define 25 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS30/OBJ=OBJ\$:SATSSS30 MSRC\$:SATSSS30/UPDATE=(ENH\$:SATSSS30)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0422 AH-BT13A-SE
VAX/VMS V4.0

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